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Canada - Agriculture, Dept. of

DIRECTORY

OF

ORGANIZATION AND ACTIVITIES

OF THE

DOMINION DEPARTMENT OF AGRICULTURE



OTTAWA
J. O. PATENAUME, I.S.O.
PRINTER TO THE KING'S MOST EXCELLENT MAJESTY
1939

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CONTENTS

DIRECTORY OF ORGANIZATION AND ACTIVITIES

OF THE

DOMINION DEPARTMENT OF AGRICULTURE

ISSUED JULY, 1939



Published by authority of the Hon. James G. Gardiner, Minister of Agriculture,
Ottawa, Canada

CONTENTS

	PAGE
INTRODUCTION	5
Agricultural Services Replace former Branches.....	5
Directors of New Services.....	6
Assistants to the Deputy Minister.....	6
ADMINISTRATION SERVICE.....	6
Publicity and Extension Division.....	6
SCIENCE SERVICE	7
Administration	7
Division of Entomology.....	7
Division of Botany and Plant Pathology.....	9
Division of Animal Pathology.....	11
Division of Chemistry.....	12
Division of Bacteriology and Dairy Research.....	13
EXPERIMENTAL FARMS SERVICE.....	13
Animal Husbandry Division.....	13
Bee Division.....	14
Cereal Division.....	14
Fibre Division.....	15
Field Husbandry Division.....	15
Forage Plants Division.....	15
Horticulture Division.....	15
Illustration Stations Division.....	16
Poultry Division.....	16
Tobacco Division.....	16
Branch Farms.....	16
PRODUCTION SERVICE.....	19
Administration	19
Health of Animals Division.....	20
Live Stock and Poultry Division.....	21
Plant Products Division.....	22
Plant Protection Division.....	24
MARKETING SERVICE.....	25
Administration	26
Overseas Office.....	26
Markets Information Section.....	26
Consumer Section.....	26
Dairy Division.....	27
Fruit and Vegetable Division.....	29
Live Stock and Live Stock Products Division.....	30
Agricultural Economics Division.....	32

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INTRODUCTION

The reorganization of the Dominion Department of Agriculture, which has been in progress since early in 1937, has been practically completed. For the convenience of the public in dealing with the staffs of the various departmental services as now realigned, this directory has been issued.

As will be noted, the structure of the department has been entirely remodelled, but in all of the important changes made there has been adherence to the principle, outlined by the Honourable James G. Gardiner, of bringing under one administrative head services similar in character and purpose in the broad fields of activity with respect to the marketing of different agricultural products, their production from a national standpoint and the experimental and scientific work in connection therewith.

Incident to the progressive development of agriculture in Canada, there has been a pressing need for specialized services and an insistent demand on the Dominion Department for their establishment. As a result, such services have had to be multiplied, expanded and extended, not only throughout Canada, but also to other countries where trade involved Canada's agriculture. Practically all of these services had developed within the department where they were started, and had become organized as large or small administrative units grouped in branches. Many of these, while specialized, had much in common with others with which they had little association. Investigation units were burdened with administrative responsibilities, and administrative units were called upon to direct research. The branches, of which there were nine, varied greatly in size and in number of divisions. Some of the divisions were quite as large as some of the branches, and similar to them in scope of work. While co-operation characterized this work as a whole, the self-contained set-up of so many units made co-ordination difficult, and did not provide full opportunity for those charged with major responsibility to direct their work as part of a larger program, through which economies might be effected by association, and to which many of them could make general contributions in the interests of agriculture as a whole. It was felt that the extent and character of the work had outgrown the structure of the department, and it was recognized as well that increases in salary scales, to a parity with those of other departments, were overdue.

In the reorganization, simplification of administration and co-ordination of related services have been stressed as the determining factors in the realignment of the work of the department, and it is believed that greater driving force in the development of departmental programs may be expected to result under the centralized direction which has been established.

The reorganization has been developed through consultation with the senior officers concerned and in conjunction with the Civil Service Commission, under whose auspices surveys of the different units of the department have been made. It has involved no substantial reductions in staff, and the majority of positions of major responsibility have been filled by the promotion of men already on the staff, nearly all of whom have had many years in the department.

AGRICULTURAL SERVICES REPLACE FORMER BRANCHES

The specialized work of the department has now been reassembled under four Services—Science, Experimental Farms, Production and Marketing. Of the nine former branches, two have been transferred intact to one of the new Services. The component units of six of the others have been redistributed in each case among two or more of the new Services. The ninth branch—Publicity and Extension—will, with other departmental work of a general administrative character, be under the direct supervision of the office of the Deputy Minister.

DIRECTORS OF NEW SERVICES

Dr. J. M. Swaine, internationally recognized as an authority on matters relating to agricultural research, is the Director of the Science Service. He has been a member of the entomological staff since 1912, and was Associate Dominion Entomologist for ten years prior to 1934, when he was appointed Director of Research in the Department of Agriculture.

Dr. E. S. Archibald, who has had more than a quarter of a century of administrative service in the department, and who has been Director of the Experimental Farms Branch since 1919, will continue as Director of the Experimental Farms Service. The increasing responsibilities which he has assumed from year to year as one of the senior members of the department, and those of a very arduous nature which have been carried by him for some time in connection with Prairie Farm Rehabilitation work, have been recognized by a material improvement in the rating of his position.

The Director of the Marketing Service is Mr. A. M. Shaw, who was for many years Dean of Agriculture at the University of Saskatchewan, and who, during 1936 and 1937, was a member of the Canadian Wheat Board.

The Production Service is under the direction of Mr. George B. Rothwell, formerly Dominion Live Stock Commissioner, and prior to that for many years Dominion Animal Husbandman in the Experimental Farms Branch.

ASSISTANTS TO THE DEPUTY MINISTER

Dr. A. T. Charron will continue as Assistant Deputy Minister, a position which he has occupied since 1925. To provide additional assistance to the Deputy Minister in dealing with an expanding volume of work of a technical nature which centres in his office, a new position, General Executive Assistant, on a parity in rank with that of Assistant Deputy Minister, has been established. This position has been filled by the promotion of R. S. Hamer, who since 1933 had been Chief of the Live Stock Field Services and Assistant Live Stock Commissioner, prior to which he was for upwards of twenty years Chief of the Cattle Division of the Live Stock Branch.

ADMINISTRATION SERVICE

DEPUTY MINISTER—G. S. H. BARTON

Attached to the administrative unit of the department are the departmental library, the supplies staff, the personnel and filing staffs, and the Publicity and Extension Division—in which are consolidated all of the activities involved in the editing and distribution of departmental publications, general press service and departmental exhibits.

Deputy Minister.....	G. S. H. Barton
Assistant Deputy Minister.....	A. T. Charron
General Executive Assistant.....	R. S. Hamer
Executive Assistant.....	E. F. Steele
Supplies Officer.....	D. L. Burgess
Librarian	Miss A. L. Shaw

PUBLICITY AND EXTENSION DIVISION

Director of Publicity.....	F. C. Nunnick
Assistant Director and Chief Press and Publicity.....	F. James
Publicity Editor.....	P. M. McArthur
Chief, Administrative and Editorial.....	E. Rhoades
Editor	J. S. McGiffin
Chief Exhibits.....	G. J. Fixter
Assistant Chief Exhibits.....	W. A. Garland

SCIENCE SERVICE

DIRECTOR—J. M. SWAINE

The Science Service includes the Divisions of Entomology, Botany and Plant Pathology, Animal Pathology, Chemistry, and Bacteriology and Dairy Research.

The work of the Service is directed toward the solution of practical problems of agriculture, through the application of scientific investigations. It deals with problems relating to the ravages of insect pests and diseases affecting plants and animals, the deterioration of plant and animal products through invasion of fungi and bacteria, the nutritional requirements of animals and plants, and the chemistry and microbiology of soils and dairy products. The work in the various laboratories of the Science Service is co-ordinated with the research work undertaken by the National Research Council, and by universities and agricultural colleges.

ADMINISTRATION

Ottawa—

Director	J. M. Swaine
Associate Director, Science Service, and Dominion Entomologist	A. Gibson
Associate Director, Science Service, and Dominion Botanist and Plant Pathologist.....	H. T. Güssow
Assistant Director, Science Service, and Dominion Animal Pathologist.....	A. E. Watson
Assistant to Director, Science Service.....	H. L. Trueman

DIVISION OF ENTOMOLOGY

This division directs investigations of economic insect species and of measures for their control by insecticidal, cultural and biological methods. Investigations deal with insects affecting field and garden crops, fruit and greenhouse crops, forest and shade trees, stored products, and live stock and man. A special parasite laboratory deals with the introduction, rearing, and distribution of imported and native parasites and predators as aids in the control of destructive insects. A section on systematic entomology has charge of the maintenance and development of the national collection of insect species.

The division co-operates in the enforcement of the Destructive Insect and Pest Act.

Headquarters of the Division of Entomology are located at Ottawa, and twenty-one regional laboratories are maintained throughout the Dominion.

Ottawa—

Dominion Entomologist, and Chief of Division.....	Arthur Gibson
Chief, Field Crop Insect Investigations.....	H. G. Crawford
Chief, Forest Insect Investigations.....	J. J. deGryse
Chief, Systematic Entomology.....	J. H. McDunnough
Officer-in-Charge, Fruit Insect Investigations (Vine-land Station, Ontario).....	W. A. Ross
Associate Entomologist.....	C. R. Twinn
Associate Entomologist (Stored Product Insect Investigations)	H. E. Gray
Associate Entomologist (Field Crop Insect Investigations)	A. G. Dustan
Assistant Entomologist (Field Crop Insect Investigations, Officer-in-Charge, Seasonal Laboratory, Spencerville, Ont.).....	G. H. Hammond
Artist	F. C. Hennessey
Junior Entomologist (Field Crop Insect Investigations, Seasonal Laboratory, Gaspé, Que.).....	A. D. Baker

Ottawa—Concluded

Associate Entomologist (Forest Insect Investigations). E. B. Watson
Assistant Entomologist (Forest Insect Investigations, Officer-in-Charge, Seasonal Laboratory, Laniel, Que.) C. E. Atwood
Assistant Entomologist (Forest Insect Investigations). A. W. A. Brown
Assistant Entomologist (Reforestation and Shade Tree Insect Investigation) K. E. Stewart
Junior Entomologist (Forest Insect Investigations, Officer-in-Charge, Seasonal Laboratory, Chalk River, Ont.) D. E. Gray
Associate Entomologist (Systematic Entomology) W. J. Brown
Entomologist (Systematic Entomology) G. S. Walley
Assistant Entomologist (Systematic Entomology) O. Peck
Entomologist (Exhibition and Extension Work) C. B. Hutchings

Nova Scotia—

<i>Dominion Entomological Laboratory, Annapolis Royal—</i>
Officer-in-Charge (Fruit Insect Investigations) A. D. Pickett
Assistant Entomologist (Fruit Insect Investigations, Acting Officer-in-Charge) N. A. Patterson
Assistant Entomologist (Fruit Insect Investigations). Vacant

New Brunswick—

<i>Dominion Entomological Laboratory, Fredericton—</i>
Officer-in-Charge (Forest Insect Investigations) R. E. Balch
Assistant Entomologist (Field Crop Insect Investiga- tions) R. P. Gorham
Assistant Entomologist (Forest Insect Investigations). L. J. Simpson
Assistant Entomologist (Forest Insect Investigations, Officer-in-Charge, Seasonal Laboratory, Casca- pedia, Que.) M. L. Prebble
Assistant Entomologist (Forest Insect Investigations). W. A. Reeks
Graduate Assistant (Fruit Insect Investigations) C. W. B. Maxwell

Prince Edward Island—

<i>Dominion Entomological Laboratory, Charlottetown—</i>
Agricultural Assistant (Field Crop Insect Investiga- tions) F. M. Cannon

Quebec—

<i>Dominion Entomological Laboratory, Berthierville—</i>
Officer-in-Charge (Forest Insect Investigations) L. Daviault
<i>Dominion Entomological Laboratory, Hemmingford—</i>
Officer-in-Charge (Fruit Insect Investigations) C. E. Petch

Assistant Entomologist (Field Crop Insect Investi-
gations) J. B. Maltais

Ontario—

<i>Dominion Parasite Laboratory, Belleville—</i>
Officer-in-Charge A. B. Baird
Entomologist C. W. Smith
Assistant Entomologist G. Wishart
Assistant Entomologist A. R. Graham
Junior Entomologist (Sub-laboratory, Parke Reserve, Que.) L. J. Briand
<i>Dominion Entomological Laboratory, Vineland Station—</i>
Officer-in-Charge (Fruit Insect Investigations) W. A. Ross
Assistant Entomologist (Fruit Insect Investigations). W. G. P. Garlick
Assistant Entomologist (Fruit Insect Investigations, Officer-in-Charge, Sub-laboratory, Simcoe, Ont.). J. A. Hall
Assistant Entomologist (Fruit Insect Investigations). T. Armstrong
Assistant Entomologist (Fruit Insect Investigations, Officer-in-Charge, Sub-laboratory, Harrow, Ont.). W. E. Van Steenburgh

Dominion Entomological Laboratory, Chatham—

Officer-in-Charge (Field Crop Insect Investigations). G. M. Stirrett
Assistant Entomologist (Field Crop Insect Investi- gations) G. Beall

Manitoba—*Dominion Entomological Laboratory, Winnipeg—*

Officer-in-Charge (Forest Insect Investigations)..... H. A. Richmond

Dominion Entomological Laboratory, Brandon—

Officer-in-Charge (Field Crop Insect Investigations). R. D. Bird

Assistant Entomologist (Field Crop Insect Investigations) R. H. Handford

Saskatchewan—*Dominion Entomological Laboratory, Indian Head—*

Acting Officer-in-Charge (Forest Insect Investigations)

L. O. T. Peterson

Dominion Entomological Laboratory, Saskatoon—

Officer-in-Charge (Field Crop Insect Investigations). K. M. King

Assistant Entomologist (Field Crop Insect Investigations, Seasonal Laboratory, Swift Current, Sask.) R. Glen

Assistant Entomologist (Field Crop Insect Investigations) A. P. Arnason

Assistant Entomologist (Field Crop Insect Investigations) L. C. Paul

Alberta—*Dominion Entomological Laboratory, Lethbridge—*

Officer-in-Charge (Field Crop Insect Investigations). H. L. Seamans

Assistant Entomologist (Field Crop Insect Investigations) G. F. Manson

Assistant Entomologist (Field Crop Insect Investigations) R. M. White

Assistant Entomologist (Field Crop Insect Investigations) C. W. Farstad

Assistant Entomologist (Field Crop Insect Investigations) R. H. Painter

Agricultural Assistant (Officer-in-Charge, Seasonal Laboratory, Morrin, Alta.) P. J. G. Rock

British Columbia—*Dominion Entomological Laboratory, Vernon—*

Officer-in-Charge (Fruit Insect Investigations)..... J. F. Marshall

Assistant Entomologist (Fruit Insect Investigations). E. P. Venables

Associate Entomologist (Forest Insect Investigations). Vacant

Acting Officer-in-Charge (Forest Insect Investigations) G. R. Hopping

Junior Entomologist (Forest Insect Investigations, Sub-laboratory, Vancouver, B.C.) W. G. Mathers

Agricultural Assistant (Forest Insect Investigations, Sub-laboratory, Trinity Valley, B.C.) K. Graham

Dominion Entomological Laboratory, Kamloops—

Officer-in-Charge (Live Stock Insect Investigations). G. A. Mail

Assistant Entomologist (Live Stock Insect Investigations) J. D. Gregson

Officer-in-Charge (Field Crop Insect Investigations). E. R. Buckell

Dominion Entomological Laboratory, Agassiz—

Officer-in-Charge (Field Crop Insect Investigations). R. Glendenning

Dominion Entomological Laboratory, Victoria—

Officer-in-Charge (Fruit Insect Investigations)..... W. Downes

DIVISION OF BOTANY AND PLANT PATHOLOGY

The activities of this division cover two main phases, Economic and General Botany, and Plant Pathology and Mycology.

The Botany section deals with the determination of native and introduced plants of Canada; the migration and geographical distribution of weeds; the relation of pasture plants to environment; investigations into economic, poisonous and medicinal properties of plants; the maintenance of a herbarium of

Canadian and allied plants, and researches in seed germination and related technical problems. Rare and unusual trees, shrubs and herbaceous plants from other countries are tested in the Dominion Arboretum.

Plant Pathology comprises a study of the diseases destructive to vegetation, and their methods of prevention and control.

The division co-operates with other divisions of the department in the enforcement of the Destructive Insect and Pest Act.

The headquarters of the division are situated in the Dominion Arboretum, Central Experimental Farm, Ottawa. Branch plant pathological laboratories are maintained in each province.

Ottawa—

Dominion Botanist and Plant Pathologist, and Chief of Division	H. T. Güssow
Botanist (Physiology).....	C. W. Leggatt
Associate Botanist (Economic Botany, Plant Geog- raphy)	J. Adams
Associate Botanist (Weeds, Poisonous Plants and Pasture Research).....	H. Groh
Assistant Curator, Dominion Arboretum.....	A. R. T. Buckley
Plant Pathologist (Mycology and Diseases of Orna- mentals)	F. L. Drayton
Associate Plant Pathologist (Forest Mycology).....	Irene I. Mounce
Associate Plant Pathologist (Mycology and Plant Disease Survey).....	I. L. Conners
Associate Plant Pathologist (Fruit and Vegetable Diseases)	H. N. Racicot
Plant Pathologist (Forest Pathology).....	A. W. McCallum
Plant Pathologist (Forest Pathology).....	C. G. Riley
Assistant Plant Pathologist (Forest Mycology).....	Ruth Macrae
Assistant Plant Pathologist (Disease Interception and Foreign Diseases).....	A. J. Hicks
Assistant Plant Pathologist (Seed-borne Diseases) ..	G. A. Scott

Prince Edward Island—

<i>Dominion Laboratory of Plant Pathology, Charlottetown—</i>	
Officer-in-Charge (Field Crop Diseases)	R. R. Hurst

Nova Scotia—

<i>Dominion Laboratory of Plant Pathology, Kentville—</i>	
Officer-in-Charge (Fruit Diseases).....	J. F. Hockey

Assistant Plant Pathologist (Fruit Diseases)..... K. A. Harrison

New Brunswick—

<i>Dominion Laboratory of Plant Pathology, Fredericton—</i>	
Officer-in-Charge (Virus Research).....	D. J. MacLeod

Assistant Plant Pathologist (Field Crop Diseases) .. J. L. Howatt

Quebec—

<i>Dominion Laboratory of Plant Pathology, Ste. Anne de la Pocatière—</i>	
Officer-in-Charge (Diseases of Farm and Orchard Crops)	C. Perrault

Ontario—

<i>Dominion Laboratory of Plant Pathology, St. Catharines—</i>	
Officer-in-Charge (Virus Diseases of Fruit and Field Crops)	G. H. Berkeley
Associate Plant Pathologist (Fruit Diseases).....	G. C. Chamberlain
Plant Pathologist (Diseases of Stone Fruits).....	R. S. Willison
Assistant Plant Pathologist (Vegetable Diseases)....	J. K. Richardson
Assistant Plant Pathologist (Root-rots of Small Fruits)	A. A. Hildebrand
Plant Pathologist-in-Charge (Tobacco Diseases (Sub- laboratory, Harrow, Ont.).....	L. W. Koch

Manitoba—

<i>Dominion Laboratory of Plant Pathology, Winnipeg—</i>	
Officer-in-Charge (Cereal Diseases and Biology of Rust Fungi)	J. H. Craigie
Senior Plant Pathologist (Cereal Rusts and Physiological Specialization)	Margaret Newton
Senior Plant Pathologist (Cereal Smuts and Biology of Smut Fungi)	W. F. Hanna
Associate Plant Pathologist (Cereal Root-rots)	F. J. Greaney
Plant Pathologist (Cereal Rusts)	T. Johnson
Plant Pathologist (Cereal Root-rots and Mycology)	W. L. Gordon
Assistant Plant Pathologist (Cereal Rusts)	A. M. Brown
Assistant Plant Pathologist (Cereal Smuts)	W. Popp
Assistant Plant Pathologist (Cereal Rusts)	B. Peturson
Assistant Plant Pathologist (Cereal Root-rots and Mycology)	J. E. Machacek

Saskatchewan—

<i>Dominion Laboratory of Plant Pathology, Saskatoon—</i>	
Officer-in-Charge (Cereal Diseases)	P. M. Simmonds
Plant Pathologist (Cereal Root-rots)	R. C. Russell
Assistant Plant Pathologist (Cereal Root-rots)	B. J. Sallans
Assistant Plant Pathologist (Cereal Root-rots)	H. W. Mead

Alberta—

<i>Dominion Laboratory of Plant Pathology, Edmonton—</i>	
Officer-in-Charge (Cereal and Field Crop Diseases) ..	G. B. Sanford
Plant Pathologist (Cereal Root-rots)	W. C. Broadfoot
Assistant Plant Pathologist (Forage Crop Diseases) ..	W. M. Cormack

British Columbia—

<i>Dominion Laboratory of Plant Pathology, Summerland—</i>	
Officer-in-Charge (Fruit Diseases and Plant Physiological Research)	H. R. McLarty
Assistant Plant Pathologist (General Plant Pathology)	G. E. Woolliams
Assistant Plant Pathologist (Physiological Disorders of Fruit)	R. E. Fitzpatrick

Dominion Laboratory of Plant Pathology, Saanichton—

Officer-in-Charge (Virus Diseases of Stone Fruits and General Plant Physiology)	W. Newton
Assistant Plant Pathologist (Diseases of Small Fruits) ..	W. Jones

DIVISION OF ANIMAL PATHOLOGY

This division directs research and experimental studies relating to animal diseases, engages in the manufacture of biological products (prophylactic and diagnostic) and related investigations, performs laboratory diagnosis of infection and disease, and general laboratory services.

The Animal Diseases Research Institute at Hull, Que., serves as the research centre and headquarters for the division. In conjunction with, and under the direction of the Institute, sub-stations and laboratories are maintained at the Central Experimental Farm, Ottawa, Ont.; Lethbridge, Alta.; Saanichton, B.C.; and Milner, B.C.

Hull, Quebec—

<i>Animal Diseases Research Institute—</i>	
Dominion Animal Pathologist, and Chief of Division ..	E. A. Watson
Assistant Chief and Senior Animal Pathologist	C. A. Mitchell
Animal Pathologist (Biological Products)	J. C. Reid
Animal Pathologist (Biological Products Investigations)	C. W. McIntosh
Animal Pathologist (Virus Diseases Investigations) ..	L. M. Heath

Hull, Quebec—Concluded

Associate Animal Pathologist (Bacteriological Investigations)	H. Konst
Associate Animal Parasitologist (Institute of Pari-W. E. Swales sitology, Macdonald College, P.Q.)	R. V. L. Walker
Assistant Animal Pathologist (Disease Diagnosis and Bacteriological Services)	F. A. Humphreys
Assistant Animal Pathologist (Virus Diseases)	P. J. G. Plummer
Assistant Animal Pathologist (Pathological Investiga- tions)	C. Mackie
Veterinary Inspector (General Laboratory Services) ..	T. Moore

Ottawa—*Poultry Pathology Laboratory, Central Experimental Farm—*

Officer-in-Charge (Poultry Diseases)	C. H. Weaver
Animal Pathologist (Poultry Diseases)	A. B. Wickware
Veterinary Inspector (Poultry Diseases)	E. W. Bond

Alberta—*Veterinary Research Station, Lethbridge—*

Officer-in-Charge (Virus Diseases, Bacteriological In- vestigations and Diagnostic Services)	R. Gwatkin
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British Columbia—*Pathological Laboratory, Saanichton—*

Officer-in-Charge (Disease Investigations and Labora- tory Services)	E. A. Bruce
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Redwater Farm, Milner—

Officer-in-Charge (Investigation of "Redwater" or Bovine Haematuria)	J. C. Bankier
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DIVISION OF CHEMISTRY

This division is responsible for investigations on soils and fertilizers, animal nutrition, plant chemistry and foods. Chemical analyses are made for projects conducted by other divisions of the Science and Experimental Farms Services. A service is maintained for the sanitary analysis of farm water supplies, and analyses are made in connection with the administration of the Meat and Canned Foods Act and the Maple Sugar Industry Act. The central laboratory is situated at Ottawa, and a regional laboratory is maintained at the Dominion Experimental Station, Kentville, N.S.

Investigations of soils and fertilizers include chemical and physical analysis of soils collected in connection with soil fertility studies, the development of methods for the spectrographic examination of soils to study the rôle of minor elements in plant nutrition, and the analysis of soils in connection with mineral deficiency studies, pasture investigations and other projects. An advisory service to farmers includes the examination of soils and soil amendments with recommendations for fertilizer treatment.

The work in animal nutrition includes the determination of co-efficients of digestibility of feeding stuffs, the investigations of factors affecting digestibility, the biological values of feed proteins, and a standard test for the determination of vitamin D content of feeding stuffs.

The work in plant chemistry includes co-operative investigations with sprays and spray materials, pasture experimental work, chemical composition of native grasses, forage crops, cereals, soybeans, and sugar beets.

Ottawa—

Dominion Agricultural Chemist, and Chief of Division	C. H. Robinson
Chemist	L. E. S. Wright
Chemist	J. T. Janson
Chemist	C. J. Watson

Ottawa—Concluded

Associate Chemist.....	H. S. Hammond
Associate Chemist.....	G. R. Giles
Associate Chemist.....	C. E. Allen
Assistant Chemist.....	Miss B. Hedley
Assistant Chemist.....	F. B. Johnston
Assistant Chemist.....	A. R. G. Emslie
Assistant Chemist.....	J. C. Woodward
Principal Assistant.....	H. H. Selwyn

Nova Scotia—*Dominion Agricultural Chemistry Laboratory, Kentville—*

Officer-in-Charge	F. A. Herman
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DIVISION OF BACTERIOLOGY AND DAIRY RESEARCH

The activities of the Division of Agricultural Bacteriology and Dairy Research are divided into research, direct services, and co-operation in the administration of Dominion Acts.

Research comprises the chief part of the work and is concerned mainly with investigations into the microbiology of soils, dairying and foodstuffs, and the utilization of agricultural products.

Direct services consist chiefly of the bacteriological analysis of samples submitted by other divisions of the department, and in the preparation of seed inoculants for departmental projects. In addition, service in the analysis of specimens, including well-water, is provided for farmers and others.

Bacteriological tests are made of inoculants, disinfectants, canned goods, etc., in connection with the administration of Dominion Acts and regulatory measures.

The Dairy Research unit is responsible for the study of problems arising in the processing of milk, the manufacture of butter, cheese, ice cream, condensed milk, dehydrated milk, casein, milk sugar, fermented milks and by-products, and for bacteriological, chemical and other research work for the purpose of establishing sound principles of manufacture in the dairy industry. It is also called upon to ascertain and develop the most appropriate methods to be applied in the making of high grade and uniform dairy products, and to investigate and apply remedial measures to new defects which arise from time to time in manufactured products.

Ottawa—

Dominion Agricultural Bacteriologist, and Chief of Division	A. G. Lochhead
Chief, Dairy Research.....	E. G. Hood
Associate Bacteriologist.....	C. K. Johns
Dairy Specialist.....	A. H. White

EXPERIMENTAL FARMS SERVICE

DIRECTOR—E. S. ARCHIBALD

The Experimental Farms Service is completely equipped to conduct experimental and research work in connection with practical farm problems in all parts of the Dominion, and to demonstrate its findings to those in a position to put them into practice.

In addition to the Central Experimental Farm at Ottawa, there are 30 branch farms and stations, several specialized stations, 16 sub-stations, 5 minor sub-stations and 46 district experiment sub-stations, as well as 193 illustration stations. At the Central Experimental Farm are located the office of the Director and the headquarters of the staffs of the ten divisions into which the work of the farm is divided.

ADMINISTRATION

Director	E. S. Archibald
Associate Director and Acting Dominion Field Husbandman	E. S. Hopkins
Assistant to Director.....	H. C. Ensor

ANIMAL HUSBANDRY DIVISION

The Animal Husbandry Division is responsible for the carrying on of extensive experimental work, at Ottawa and at branch farms throughout the Dominion, relating to the breeding, feeding, housing and management of the various classes of domestic live stock.

The work includes laboratory studies in animal nutrition, including determination of digestibility of feeding stuffs, effect of plane of nutrition on digestibility of feeds, and biological value of feed proteins; the evaluation of pasture improvement practices and of various feeding stuffs as component parts of fattening rations; a study of practical and economical rations for growth and production; studies of breeding methods based on production records of dams and on progeny tests of sires and investigations dealing with the prevention and elimination of certain animal diseases and of parasites, the latter in co-operation with the Institute of Parasitology, Macdonald College.

Dominion Animal Husbandman.....	G. W. Muir
Assistant (Swine).....	E. B. Fraser
Assistant (Beef Cattle and Sheep).....	P. E. Sylvestre
Assistant (Genetics).....	A. Deakin
Assistant (Dairy Cattle).....	C. D. MacKenzie
Assistant (Swine)).....	J. G. Stothart

BEE DIVISION

This division is responsible for experimental work in breeding, swarm control, wintering, colony manipulation and other phases of practical bee-keeping. It also carries on extensive studies in relation to the keeping qualities of honey, fermentation, and honey storage. In addition, it is responsible for the inspection and certification of honey for the export market.

Dominion Apiarist	C. B. Gooderham
Apiarist	A. H. W. Birch

CEREAL DIVISION

This division is engaged in the creation, testing and introduction of superior varieties of cereals and leguminous grains, field beans, buckwheat, and flax of the seed-bearing type. The creation of new types is concentrated chiefly at the Experimental Farm at Ottawa, while at the Dominion Rust Research Laboratory at Winnipeg work is centred on the development of disease-resistant varieties of wheat and oats. Among the many other activities of this division are the investigation of varieties of grain for which a licence has been requested in accordance with the Canada Seed Act, the encouragement of the use of good seed of adapted varieties, the conducting of verification tests to determine the genuineness and purity of seed stocks and the investigation of special problems which have a bearing on cereal breeding and development work.

Dominion Cerealist.....	L. H. Newman
Assistant (Spring Wheat)	J. G. C. Fraser
Assistant (Barley and Peas).....	P. R. Cowan
Assistant (Winter Wheat and Rye).....	A. G. O. Whiteside
Assistant (Oats)	R. A. Derick
Assistant (Flax, Beans and Buckwheat).....	W. G. McGregor
Assistant (Genetics)	R. M. Love

FIBRE DIVISION

The Fibre Division is responsible for all investigational work relating to the production of fibre crops in Canada, and for the study of problems involved in the growing and marketing of these fibres. This includes variety tests, fertilizer tests, plant breeding, machinery tests and related investigational work. Flax is the principal fibre crop dealt with.

Chief, Fibre Division.....	R. J. Hutchinson
Assistant	E. M. MacKey

FIELD HUSBANDRY DIVISION

This division, co-operating with other divisions, conducts work covering soil cultivation and management, weed eradication, crop rotations, drainage, irrigation, efficiency of farm machinery, and the use of commercial fertilizers, manure and green manure crops. Co-operating with provincial departments of agriculture and agricultural colleges, soil surveys are conducted, and studies of soil drifting, soil moisture and soil temperature are also made. Meteorological records are kept at all branch stations and assembled by this division.

Acting Dominion Field Husbandman.....	E. S. Hopkins
Assistant (Soil Fertility).....	P. O. Ripley
Assistant (Agricultural Engineering).....	J. M. Armstrong
Assistant (Production Costs).....	H. D. Mitchell
Assistant (Soils)	A. Leahy
Assistant (Weeds)	G. Knowles

FORAGE PLANTS DIVISION

Special attention is given by this division to the improvement of forage crop production in Canada by the introduction of new species from foreign countries, by variety tests of native and foreign species, and by hybridization and selection to develop new species. Other important activities relate to the technique of seed production, pasture studies, variety testing, range investigations and turf grass experiments. At the Dominion Forage Crops Laboratory at Saskatoon, in co-operation with the University of Saskatchewan, special attention is being given to the development of early-maturing, hardy and drought-resistant strains of forage plants adapted to the Prairie Provinces.

Dominion Agrostologist	T. M. Stevenson
Assistant (Corn, Soybeans, etc.).....	F. Dimmock
Assistant (Alfalfa and Clover).....	J. M. Armstrong
Assistant (Hay and Pasture).....	F. S. Nowosad
Assistant (Grass and Seed).....	R. M. MacVicar

HORTICULTURE DIVISION

This division deals with problems of fruit growing, vegetable gardening and ornamental plants. The work includes the breeding of new and better varieties, studies in plant nutrition, the production of fruit juices, dehydration, the production of foundation and élite stock vegetable seed, purity tests of vegetables, and cold storage experiments. The division also co-operates with farmers in orchard experiments and in blueberry and cranberry investigations.

Dominion Horticulturist	M. B. Davis
Assistant (Vegetable Crops)	T. F. Ritchie
Assistant (Co-operative Experiments)	F. S. Browne
Assistant (Plant Nutrition)	H. Hill
Assistant (Pomology)	D. S. Blair
Assistant (Fruit Breeding)	A. W. S. Hunter
Assistant (Ornamental Plant Breeding).....	Miss I. Preston
Assistant (Fruit and Vegetable Products).....	R. W. Arengo-Jones
Assistant (Plant Nutrition)	Wm. Ferguson
Assistant (Ornamental Horticulture)	R. W. Oliver
Assistant (Low Temperature Research).....	W. R. Phillips
Artist	A. Kellett

ILLUSTRATION STATIONS

The 193 illustration stations supervised by this division are located on privately-owned farms throughout the Dominion, the owners of which have entered into co-operative agreements with the department to carry on specified work under direction. These stations serve as connecting links between the experimental farms and the farmers of Canada. They provide an organization through which experimental results may be further tested and verified under practical farm conditions. They furnish the medium through which improved methods in animal and field husbandry are demonstrated. They also provide an opportunity to study, in their natural environment, local agricultural problems of production. On 46 district experiment sub-stations, problems relating to drought and soil-drifting are dealt with.

Chief Supervisor of Illustration Stations.....	J. C. Moynan
Assistant to Chief Supervisor of Illustration Stations.	J. D. Belzile
Supervisor	R. E. Everest
Supervisor	W. L. Chauvin

POULTRY DIVISION

This division conducts experimental work in the various branches of poultry husbandry, including breeding, housing, incubation, brooding, rearing, nutrition and the preparation of poultry products for the market. It also conducts the Canadian National Egg Laying Contests, and, in co-operation with the Health of Animals Division, carries on experiments in the control and eradication of poultry diseases.

Dominion Poultry Husbandman.....	Geo. Robertson
Assistant (Water Fowl and Turkeys)	A. G. Taylor
Assistant (Nutrition)	H. S. Gutteridge
Assistant (Genetics)	S. S. Munro

TOBACCO DIVISION

This division is responsible for all experimental work carried on in Canada in connection with the development of the tobacco industry. Its activities embrace plant breeding, conducting of variety tests, the investigation of cultural methods, research on problems of fertilizers and soils, the study of harvesting and curing methods, and the control of diseases and insects. A close co-operative relationship has been developed with the Department of Trade and Commerce in opening up new outlets for Canadian leaf.

Chief, Tobacco Division.....	N. T. Nelson
Assistant (Genetics)	N. A. MacRae
Assistant (Nutrition)	L. E. Gilmore

Superintendent, Central Experimental Farm.....	D. D. Gray
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BRANCH FARMS

Prince Edward Island—

<i>Experimental Station, Charlottetown—</i>	
Superintendent	J. A. Clark
Assistant (Cereals and Poultry)	B. F. Tinney
Assistant (Agronomy)	D. C. Schurman
Supervisor (Illustration Stations).....	E. L. Eaton

Experimental Fox Ranch, Summerside—

Superintendent (Nutrition).....	G. E. Smith
Supervisor (Fox Illustration Stations).....	J. C. Jack

Nova Scotia—*Experimental Station, Kentville—*

Superintendent	A. Kelsall
Assistant (Pomology)	R. D. L. Bligh
Assistant (Fruit Products and Breeding)	C. C. Eidt
Assistant (Field Crops)	J. S. Leefe
Assistant (Low Temperature Investigations)	C. A. Eaves
Supervisor (Illustration Stations)	F. B. Kinsman

Experimental Farm, Nappan—

Superintendent	W. W. Baird
Assistant (Animal and Field Husbandry)	S. A. Hilton
Assistant (Agronomy)	J. L. Forsyth

New Brunswick—*Experimental Station, Fredericton—*

Superintendent	C. F. Bailey
Assistant (Agronomy)	J. M. F. MacKenzie
Assistant (Horticulture)	L. C. Young
Assistant (Animal and Poultry Husbandry)	L. Griesbach
Supervisor (Illustration Stations)	R. C. Parent

Quebec—*Experimental Station, Ste. Anne de la Pocatière—*

Superintendent	J. R. Pelletier
Assistant (Animal Husbandry)	J. H. Girard
Assistant (Field Husbandry)	J. E. Godbout
Supervisor (Illustration Stations)	R. Caron

Experimental Station, Cap Rouge—

Superintendent	C. E. Ste. Marie
Assistant (Horticulture)	P. Bertrand

Experimental Station, Lennoxville—

Superintendent	J. A. Ste. Marie
Assistant (Field Husbandry)	W. S. Richardson
Assistant (Animal Husbandry)	D. A. Finlayson
Supervisor (Illustration Stations)	J. O. P. Allard

Experimental Station, Farnham—

Superintendent	R. Bordeleau
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Experimental Station, L'Assomption—

Superintendent	J. E. Montreuil
Assistant (Tobacco)	G. E. Turcotte
Assistant (Animal and Field Husbandry)	J. C. H. Chabot

Experimental Station, Normandin—

Superintendent	J. A. Belzile
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Ontario—*Experimental Station, Harrow—*

Superintendent	H. F. Murwin
Assistant (Tobacco)	R. J. Haslam
Assistant (Forage Crops)	C. W. Owen
Assistant (Tobacco)	E. S. Moore

Experimental Sub-Station, Delhi—

Officer-in-Charge	F. A. Stinson
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Experimental Station, Kapuskasing—

Superintendent	J. P. S. Ballantyne
Assistant (Agronomy)	E. T. Goring
Assistant (Animal and Field Husbandry)	J. U. Pilon
Supervisor (Illustration Stations)	F. X. Gosselin

Manitoba—*Experimental Farm, Brandon—*

Superintendent	M. J. Tinline
Assistant (Animal and Poultry Husbandry).....	R. M. Hopper
Assistant (Forage Crops).....	G. F. H. Buckley
Assistant (Bees and Horticulture).....	E. Braun
Assistant (Cereals)	W. H. Johnston
Supervisor (Illustration Stations).....	D. A. Brown

Experimental Station, Morden—

Superintendent	W. R. Leslie
Assistant (Animal and Field Husbandry).....	W. J. Breakey
Assistant (Horticulture)	W. L. Kerr

Rust Research Laboratory, Winnipeg—

Officer-in-Charge	C. H. Goulden
Assistant (Wheat Breeding).....	R. F. Peterson
Assistant (Oat Breeding).....	J. N. Welsh

Saskatchewan—*Experimental Farm, Indian Head—*

Superintendent	W. H. Gibson
Assistant (Horticulture)	R. M. Wilson
Assistant (Agronomy)	J. G. Davidson
Assistant (Animal Husbandry).....	W. W. Cram

Forestry Nursery Station, Indian Head—

Superintendent	N. M. Ross
Assistant (Forestry Engineering).....	C. A. Edwards

Forest Nursery Station, Sutherland—

Superintendent	J. McLean
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Experimental Station, Swift Current—

Superintendent	L. B. Thomson
Assistant (Agronomy).....	H. J. Kemp
Assistant (Agricultural Engineering).....	G. N. Denike
Assistant (Field Husbandry).....	P. J. Janzen
Supervisor (Illustration Stations).....	E. C. Sackville

Experimental Station, Rosthern—

Superintendent	F. V. Hutton
Assistant (Animal and Poultry Husbandry).....	A. H. O. Colbert

Experimental Station, Melfort—

Superintendent	M. J. McPhail
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Experimental Station, Scott—

Superintendent	G. D. Matthews
Assistant (Animal Husbandry).....	E. VanNice
Assistant (Cereals)	F. M. MacIsaac
Supervisor (Illustration Stations).....	N. F. Bell

Forage Crops Laboratory, Saskatoon—

Officer-in-Charge	W. J. White
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Alberta—*Experimental Station, Lacombe—*

Superintendent	F. H. Reed
Assistant (Agronomy and Horticulture).....	G. E. DeLong
Assistant (Animal and Poultry Husbandry).....	H. E. Wilson

Experimental Station, Lethbridge—

Superintendent	W. H. Fairfield
Assistant (Irrigation and Field Husbandry).....	A. E. Palmer
Assistant (Animal and Poultry Husbandry).....	K. Rasmussen
Assistant (Agronomy).....	W. D. Hay
Assistant (Field Husbandry and Illustration Stations).H. Chester	

Dominion Range Experiment Station, Manyberries—

Officer-in-Charge	H. J. Hargrave
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Experimental Sub-Station, Beaverlodge—

Superintendent	W. D. Albright
Assistant (Agronomy)	E. C. Stacey

British Columbia—*Experimental Farm, Agassiz—*

Superintendent	W. H. Hicks
Assistant (Horticulture).....	J. J. Woods
Supervisor (Illustration Stations)	R. M. Hall

Experimental Station, Windermere—

Superintendent	R. G. Newton
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Experimental Station, Summerland—

Superintendent	R. C. Palmer
Assistant (Vegetables and Live Stock).....	W. M. Fleming
Assistant (Fruit Harvesting and Storage).....	J. E. Britton
Assistant (Fruit Products).....	F. E. Atkinson
Assistant (Horticulture).....	A. J. Mann
Assistant (Soil Fertility and Soil Moisture).....	J. C. Wilcock

Experimental Station, Saanichton—

Superintendent	E. M. Straight
Assistant (Horticulture).....	E. R. Hall

Experimental Sub-Station, Smithers—

Officer-in-Charge	K. MacBean
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Experimental Sub-Station, Kamloops—

Officer-in-Charge	E. W. Tisdale
Assistant (Range Management).....	T. P. MacKenzie

PRODUCTION SERVICE

DIRECTOR, GEO. B. ROTHWELL

In the Production Service is consolidated the work of the department formerly carried on by the Health of Animals Branch with the exception of the Animal Diseases Research Institute; the Seed Branch; the Field Services of the Live Stock Branch; the Import and Export Plant Inspection Service of the Entomological Branch and the Seed Potato Inspection Service of the Botanical Division of the Experimental Farms Branch.

The Production Service gives national leadership in organizing agricultural production. It co-ordinates the work of the Dominion and provincial field staffs in interpreting to farmers ways to profitable production derived from activities of the Experimental Farms and Science Services, and from the intimate association of the Marketing Service with agricultural commerce. It is responsible for the administration of acts designed to prevent the introduction and spread of diseases of animals and plants and to ensure freedom from disease in animal and plant products exported, and of acts standardizing sale in the domestic market of meat and canned foods, seed, feeding stuffs, fertilizers, hay, agricultural poisons, straw and binder twine.

ADMINISTRATION**Ottawa—**

Director	G. B. Rothwell
Assistant Director, Production Service, and Veterinary Director General.....	A. E. Cameron
Assistant Director, Production Service, Live Stock and Poultry Division.....	J. M. McCallum
Assistant Director, Production Service, Plant Products Division	N. Young
Chief, Plant Protection Services.....	L. S. McLaine

HEALTH OF ANIMALS DIVISION

The Health of Animals Division administers the Animal Contagious Diseases Act, under which there has been established a Dominion-wide veterinary inspection service to protect Canadian live stock against the introduction and spread of scheduled diseases. It also administers the Meat and Canned Foods Act, with the exception of the Orders in Council relating to the processing of fruits, vegetables, dairy products and canned fish. This Act is compulsory in respect to establishments in which animals are slaughtered, or in which any parts or products thereof are prepared for food for interprovincial or export trade. It also administers various policies including the restricted area policy for the control and eradication of bovine tuberculosis, as well as optional policies for the control of this disease and Bang's disease.

Ottawa—

Assistant Director, Production Service, and Veterinary Director General.....	A. E. Cameron
Chief Veterinary Inspector.....	
Associate Chief Veterinary Inspector.....	Orlan Hall
Associate Chief Veterinary Inspector.....	C. O. Maconachie

New Brunswick—

District Veterinary Inspector In charge of Maritime Provinces.....	E. B. Unger, P.O. Box 338, Moncton
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Quebec—

District Veterinary Inspector.....	J. O. Langevin, Room 524, 400 Youville Sq., Montreal
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Ontario—

District Veterinary Inspector.....	Wm. Moynihan, 366 Keele St., Toronto 9
Division Supervisor of Meat Inspection.....	F. H. S. Lowrey, 366 Keele St., Toronto 9

Manitoba—

District Veterinary Inspector.....	R. H. Lay, 613 Dominion Public Bldg., Winnipeg
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Saskatchewan—

District Veterinary Inspector.....	M. Barker, Post Office Bldg., Regina
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Alberta—

District Veterinary Inspector.....	J. C. Hargrave, Public Bldg., Room 414, Calgary
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British Columbia—

District Veterinary Inspector.....	W. H. McKenzie, 739 Hastings St. W., Vancouver, B.C.
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England—

Veterinary Inspector.....	T. D. Young, 39 Charterhouse Chambers, Charterhouse Square, Smithfield Markets, London, E.C. 1
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LIVE STOCK AND POULTRY DIVISION

The Live Stock and Poultry Division administers the Live Stock Pedigree Act and the Hatchery Approval section of the Live Stock and Live Stock Products Act; promotes the work of Advanced Registry Boards for Dairy Cattle and Swine; maintains the R.O.P. Service for Dairy Cattle and for Poultry and the Advanced Registry Service for Swine; administers sire assistance policies in relation to horses, cattle, sheep, swine and poultry; administers assistance to fairs and exhibitions and directs the co-ordination of Dominion and provincial departmental effort to improve quality and increase returns in live stock production.

Ottawa—

Assistant Director, Production Service, Live Stock....	J. M. McCallum
Chief, Live Stock and Poultry Production Services...A. W. Peterson	
Associate Chief Live Stock and Poultry Production Services	A. A. MacMillan
Chief Registration Officer.....A. P. MacVannel	
Associate Chief, Live Stock and Poultry Production Services	S. Boily
Assistant Chief Poultry Production Services.....R. W. Zavitz	
Chief Record of Performance Inspector.....C. S. Wood	
Live Stock Production Assistant.....F. G. Semple	
Live Stock Production Assistant.....W. L. Graham	
Live Stock Production Assistant.....J. G. Lefebvre	

Prince Edward Island—

Veterinary Inspector (officer in charge).....	E. S. Notting, Box 489, Charlottetown
Senior Live Stock Fieldman.....	S. D. Irvine, Box 489, Charlottetown

New Brunswick—

District Swine Grader (Nova Scotia and New Brunswick).....	J. W. Graham, Box 310, Moncton
Senior Live Stock Fieldman.....	J. H. King, Box 310, Moncton
Senior Live Stock Fieldman.....	E. F. Pineau, Caraquet
Poultry Fieldman.....	A. C. Craft, Silver Falls, R.R. 2, St. John

Nova Scotia—

Senior Live Stock Fieldman.....	J. A. Steele, C.N.R. Station Bldg., Truro
Poultry Fieldman.....	D. H. Borden, Sheffield Mills

Quebec—

Senior Live Stock Fieldman.....	J. P. Fleury, Postal Station "B," St. Catherine St. West, Montreal
Senior Live Stock Fieldman.....	C. Bouchard , 35 St. Antoine, Levis
Senior Live Stock Fieldman.....	J. E. P. Langlois, Box 459, Rimouski
Senior Live Stock Fieldman.....	H. Pintal, 33a King St. W., Sherbrooke
Poultry Fieldman.....	E. Filiault, Maple Ave., Montmagny

Ontario—

Senior Live Stock Fieldman.....	C. F. MacKenzie, 216 Union St., Kingston
Senior Live Stock Fieldman.....	J. A. Telfer, Paris
Poultry Fieldman.....	G. K. Samis, 61 Victoria St., Toronto 2

Manitoba—

Supervising Live Stock Fieldman.....	W. D. Davies, 630 Dominion Public Bldg., Winnipeg
Senior Live Stock Fieldman.....	T. Bodnar, Box 339, Dauphin
Poultry Fieldman.....	S. J. Ferns, 630 Dominion Public Bldg., Winnipeg

Saskatchewan—

Senior Live Stock Fieldman.....	J. H. Coles, 416 Post Office Bldg., Regina
Poultry Fieldman.....	416 Post Office Bldg., Regina

Alberta—

District Live Stock Fieldman (Alberta and British Columbia).....	N. Curtis, 407 Blowey-Henry Bldg., Edmonton
Senior Live Stock Fieldman.....	S. G. Freeborn, 409 Dominion Public Bldg., Calgary
Senior Live Stock Fieldman.....	John Norquay, 407 Blowey-Henry Bldg., Edmonton
Senior Live Stock Fieldman.....	M. Syrotuck, 407 Blowey-Henry Bldg., Edmonton
District Supervisor, Live Stock Production.....	J. Byers, 409 Dominion Public Bldg., Calgary
Poultry Fieldman.....	W. E. McKim, 304-12th Ave. N.W., Calgary

British Columbia—

Live Stock Fieldman.....	T. G. Stewart, 512 Winch Bldg., Vancouver
Poultry Fieldman.....	H. D. Reid, 306 Gorge Rd., Victoria

PLANT PRODUCTS DIVISION

The Plant Products Division administers the Seeds Act, Feeding Stuffs Act, Fertilizers Act, Pest Control Products Act, Inspection and Sale Act and the Hay and Straw Inspection Act; assists the Canadian Seed Growers' Association; provides laboratory services for purity and germination tests of seeds and for chemical and microscopical analyses of feeds, commercial fertilizers and agricultural poisons; directs the co-ordination of Dominion and provincial effort to encourage the distribution and use of pure seed of improved strains, and to promote improvement in the production of cereals, forage crops, field roots, flax, garden vegetables and pastures.

Ottawa—

Assistant Director, Production Service, Plant Products.	N. Young
Chief, Laboratory Services.....	W. H. Wright
Assistant Chief Laboratory Services.....	Geo. A. Elliott
Chemist	Geo. E. Grattan
Seed Services	C. Sweet
Associate Chief, Inspection Services.....	G. S. Peart
Associate Chief, Inspection Services.....	W. R. White
Registration Assistant.....	P. M. Overholt
Seed Standards Assistant.....	T. D. C. Hamilton
Markets Assistant.....	L. M. P. Cliche

Maritime Provinces—

District Supervisor.....	G. Lelacheur, Box 220, Sackville, N.B.
Supervising Analyst.....	A. Hope, Box 220, Sackville, N.B.

Quebec—

District Supervisor.....	J. Simard, 503 Customs Bldg., Montreal.
Supervising Analyst.....	J. A. Pepin, 503 Customs Bldg., Montreal.

Eastern Ontario—

District Supervisor.....	J. W. Mackay, 325 Jackson Bldg., Ottawa
Supervising Analyst.....	J. A. Dawson, 325 Jackson Bldg., Ottawa

Western Ontario—

District Supervisor.....	W. J. W. Lennox, 86 Collier Street, Toronto
Supervising Analyst.....	B. F. Forward, 86 Collier Street, Toronto

Manitoba—

District Supervisor.....	J. E. Blakeman, 730 Dominion Public Bldg., Winnipeg
Supervising Analyst.....	A. C. Heise, 730 Dominion Public Bldg., Winnipeg

Saskatchewan—

District Supervisor.....	T. W. L. Burke, 523 Federal Bldg., Saskatoon.
Supervising Analyst.....	J. C. Noble, 523 Federal Bldg., Saskatoon.

Alberta—

District Supervisor.....	F. E. Foulds, Immigration Bldg., Calgary
Supervising Analyst.....	N. G. Lewis, Immigration Bldg., Calgary

British Columbia—

District Supervisor.....	G. M. Stewart, Postal Station C, Vancouver
Supervising Analyst.....	C. T. Tapp, Postal Station C, Vancouver

PLANT PROTECTION DIVISION

The Plant Protection Division is responsible for the enforcement of regulations under the Destructive Insect and Pest Act in respect to import and export shipments of plants and plant products and for the certification, after inspection in the field, in storage, and at shipping points, of potatoes as seed potatoes; maintains domestic insect quarantines and enforces preventive measures against the introduction of new pests; issues certificates of health to meet the requirements of importing countries in respect to plants and plant products exported.

Ottawa—

Chief, Plant Protection Services.....	L. S. McLaine
Assistant Chief, Plant Protection Services.....	W. N. Keenan
Chief Inspector, Plant Diseases.....	John Tucker
Supervising Inspectors.....	S. H. Short and P. N. Vroom
Senior Inspector.....	E. W. Harber
Senior Agricultural Assistant.....	M. R. Baker

Prince Edward Island—

District Inspector.....	S. G. Peppin, Seed Potato Certification, Laboratory of Plant Pathology, Charlottetown
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Nova Scotia—

District Inspector.....	A. K. Gibson, Plant Inspection Office, Room 417, Dom. Public Bldg., Halifax.
District Inspector.....	W. K. McCulloch, Seed Potato Certification, Laboratory of Plant Pathology, Kentville

New Brunswick—

District Inspector.....	A. Finnimore, Plant Inspection Office, Customs Bldg., Saint John
District Inspector.....	C. H. Godwin, Seed Potato Certification, Customs Bldg., Fredericton

Quebec—

District Inspector.....	B. Baribeau, Seed Potato Certification, Post Office Building, Ste. Anne de la Pocatière
District Inspector.....	L. R. Gagnon, Plant Inspection Office, 2 Avenue Chauveau, Quebec
District Inspector.....	W. St. G. Ryan, Plant Inspection Office, 105 McGill St., Montreal.
Supervising Inspector.....	H. A. U. Monroe, In charge Fumigation Station, 785 Mill St., Montreal

Ontario—

District Inspector.....	W. A. Fowler, Plant Inspection Office, Room 549, Customs Bldg., Toronto
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Ontario—Concluded

District Inspector (except north-western).....	O. W. Lachaine, Seed Potato Certification, Department of Horticulture, Ontario Agric. College, Guelph
District Inspector.....	R. W. Sheppard, Plant Inspection Office, Federal Bldg., Niagara Falls
Inspector in Charge.....	F. J. Hudson, Plant Inspection Office, Dom. Public Bldg., London (Note: Seasonal Headquarters only)
District Inspector.....	W. R. Lapp, Plant Inspection Office, Room 635, Dom. Pub. Bldg., Windsor

Manitoba—

District Inspector.....	C. A. S. Smith, Plant Inspection Office, Room 722, Dominion Public Bldg., Winnipeg
District Inspector..... In charge of Seed Potato Certification in Manitoba and Eastern Saskatchewan, north-western Ontario	J. W. Scannell, Room 722, Dominion Public Bldg., Winnipeg

Saskatchewan—

District Inspector.....	P. C. Brown, Plant Inspection Office, Post Office Bldg., Estevan
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Alberta—

District Inspector..... In charge of Seed Potato Certification in Alberta and Saskatchewan	J. W. Marritt, Room 423, Post Office Bldg., Edmonton
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British Columbia—

District Inspector.....	H. F. Olds, Plant Inspection Office, Room 514, Federal Bldg., Vancouver
District Inspector.....	H. S. MacLeod, Seed Potato Certification, Room 514, Federal Bldg., Vancouver
District Inspector.....	J. Noble, Plant Inspection Office, Parliament Buildings, Victoria

MARKETING SERVICE

DIRECTOR, A. M. SHAW

The Marketing Service is responsible for all activities of the department relating to the efficient marketing of agricultural products under standard grades.

The Service, as now established, represents an amalgamation and extension of work formerly dealt with by the Dairy Branch, with the exception of its research laboratory; the Fruit Branch; the market services of the Live Stock Branch, and the Economics Branch. This centralization of effort is the primary step in policy for the definite expansion and more effective application of marketing activities designed to give a definite lead to planned and profitable production.

The amalgamation centralizes administration of all grading services covering live stock and live stock products, dairy products, poultry, eggs, fruit, vegetables, canned goods, maple products and honey and departmental advertising. It brings under central control all market reporting services as provided for the above-mentioned agricultural commodities. Transportation activities have been brought together, and consumer services, designed to centre attention on graded products and their identification, have been consolidated.

Associated as a fact-finding body in connection with the economics of marketing as well as of production is the Agricultural Economics Division.

ADMINISTRATION

Ottawa—

Director	A. M. Shaw
Associate Director, Marketing Service, Dairy Products Division.....	J. F. Singleton
Associate Director, Marketing Service, Agricultural Economics Division.....	J. F. Booth
Assistant Director, Marketing Service, Fruit and Vegetable Division.....	R. L. Wheeler
Assistant to Director, Marketing Service.....	R. W. Neely

Attached to the administrative unit, and directly under the supervision of the Director, are the Overseas Office, the Markets Information Section and the Consumer Section.

OVERSEAS OFFICE

Agricultural Commissioner.....	William Allen, Canada House, London, England
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MARKETS INFORMATION SECTION

The Markets Information Section as now constituted is the natural corollary of centralized marketing authority. It co-ordinates market reporting, formerly conducted by several branches of the department. It functions to supply the producer of agricultural products with an interpretation of relative supply, demand and conditions, throughout the Dominion and abroad, as affecting his operations. Its most important feature is the stimulation of interest in quality production through regular reports on differentials in prices obtainable for quality products as compared with prices ruling for products of lower grades. It also serves to give producers a lead in interpreting market trends, with a view to assisting in intelligent planning of production for future markets.

Chief, Markets Information.....	R. M. Scott
Senior Assistant Agricultural Economist.....	C. V. Parker
Markets Assistant.....	A. W. Ryan
Markets Assistant.....	P. A. Cossman

CONSUMER SERVICE SECTION

In this section of the administrative staff of the Marketing Service is now centralized all activity relating to demonstration work featuring the preparation, cooking, and serving of meats, poultry, eggs, fruits and vegetables; the nutritive and dietetic value of dairy products, and the significance and value, to consumers, of departmental grading of agricultural food products.

Chief, Consumer Service.....	Laura C. Pepper
Home Economist.....	Edith Elliot
Home Economist.....	Eveline LeBlanc
Assistant Demonstrator and Lecturer.....	
Saskatchewan— Assistant Demonstrator and Lecturer.....	Muriel W. Cameron, Regina

DAIRY DIVISION

This division is responsible for the administration of the Dairy Industry Act, which provides for the official grading of all cheese and butter sold for export, and under which a large percentage of both of these products sold on the domestic market is graded. The manufacture of ice cream in accordance with prescribed standards, also is regulated under this Act. Under authority of the Meat and Canned Foods Act, the division issues permits to, and supervises the operation of concentrated milk establishments.

It arranges and supervises refrigerated car service for butter, cheese and eggs, and supervises loading and stowage of perishable produce exported from Canada by ocean transport and the discharge at principal ports in the United Kingdom. It administers the Cold Storage Act, under authority of which the construction of cold storage warehouses in Canada may be subsidized.

The division also assembles information of value to the department and to the industry and trade in expanding the outlet for Canadian dairy products.

Ottawa—

Associate Director, Marketing Service, Dairy Products.	J. F. Singleton
Chief, Dairy Products Grading and Inspection Services	Jos. Burgess
Associate Chief, Dairy Products Grading and Inspection Services	W. C. Cameron
Assistant Chief, Dairy Products Marketing and Merchandizing Services	H. A. Derby
Dairy Produce Grader.....	S. R. Howe
Supervisor of Condenseries.....	D. B. Goodwillie
Dairy and Cold Storage Inspector.....	W. E. Browne

Prince Edward Island—

Dairy Produce Grader.....	W. F. Rogerson, 181 Hillsboro St., Charlottetown
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Nova Scotia—

Dairy Produce Grader.....	R. M. MacLennan, Room 407, Dominion Public Bldg., Halifax
Inspector of Dairy Products.....	E. K. Bonnyman, 26 Woodill St., Sydney
Inspector of Dairy Products.....	G. W. Parker, 20 Pleasant St., Truro

New Brunswick—

Dairy Produce Grader.....	W. J. Davies, Fourth Floor, Post Office Bldg., Moncton
Inspector of Dairy Products.....	T. H. MacLeod, 43 Portland St., Saint John

Quebec—

Dairy Produce Grader.....	J. O. Danis, 99 Dalhousie St., Quebec
Senior Dairy Produce Grader.....	T. J. Hicks, 165 Common St., Montreal
In charge of Inspectors of Dairy Products in the province of Quebec.....	J. U. Maher, 165 Common St., Montreal
Inspector of Dairy Products.....	H. Desfosses, 1192 Mercier St., Trois Rivieres

Quebec—Concluded

Inspector of Dairy Products.....	M. Germain, Princeville
Inspector of Dairy Products.....	J. Z. Gosselin, P.O. Box 507, Rimouski
Inspector of Dairy Products.....	R. Kerouack, P.O. Box 136, Chicoutimi
Inspector of Dairy Products.....	S. Menard, P.O. Box 37, Noranda
Senior Cargo Inspector.....	R. P. Spencer, 165 Common St., Montreal

Ontario—

Dairy Produce Grader.....	F. Brown, Kemptville
Dairy Produce Grader.....	J. L. Irwin, 175 Front St., Belleville
Dairy Produce Grader.....	Jas. L. Henderson, 21 Lombard St., Toronto, 2
Dairy Produce Grader.....	D. M. Beattie, Room 22, Bank of Toronto, London
Inspector of Dairy Products.....	J. E. Dougall, Hallville
Inspector of Dairy Products.....	G. A. Schroer, 31 Paradise Road, N., Hamilton
Inspector of Dairy Products.....	R. J. Quinn, 184 King St., W., North Bay

Manitoba—

Dairy Produce Grader.....	J. A. McManus, Room 602, Dominion Public Bldg., Winnipeg
Senior Dairy Produce Grader for the Western Provinces	K. G. MacKay, Dominion Public Bldg., Winnipeg

Saskatchewan—

Dairy Produce Grader.....	H. S. Anderson, Post Office Bldg., Yorkton
Dairy Produce Grader.....	R. J. Carleton, 319 Federal Bldg., Saskatoon
Dairy Produce Grader.....	H. J. Crowe, 7th & Halifax Streets, Regina

Alberta—

Dairy Produce Grader.....	W. J. Beckett, New Immigration Bldg., Edmonton
Dairy Produce Grader.....	E. W. Light, 530 Calgary Public Bldg., Calgary

British Columbia—

Dairy Produce Grader.....	H. A. Mason, 502 Federal Bldg., Vancouver
Cargo Inspector.....	W. J. C. Tait, 502 Federal Bldg., Vancouver

United Kingdom—

Cargo Inspector.....	A. E. Griffith, 16 Crossway, Stoke Newington, London, N. 16
Cargo Inspector (for Liverpool, Manchester, Bristol, Cardiff, Avonmouth, Swansea).....	Jos. Bent, Hall Lane, Huyton, Liverpool
Cargo Inspector (for Liverpool, Glasgow, Paisley, Leith)	J. C. Williams, 2, Moss Lane, Lydiate, Liverpool

FRUIT AND VEGETABLE DIVISION

This division administers regulations under the Fruit, Vegetables and Honey Act, governing the grading and packing of fruits and the grading and marking of fruits and vegetables for export, import and domestic trade, and the classification and grading of honey for export and domestic markets.

The division is also responsible for the administration of regulations under the Meat and Canned Foods Act governing the operation of some 500 establishments engaged in the canning of fruits and vegetables for interprovincial and export trade. In addition, it administers the Maple Sugar Industry Act, which provides for the inspection and grading of maple sugar products and for proper identification of sugars or syrups resembling or imitating maple products.

Information of value in expanding the outlet for fruit, vegetables, honey and maple sugar products is assembled and distributed by the merchandizing section of the division.

Ottawa—

Assistant Director, Marketing Service, Fruit and Vegetables	R. L. Wheeler
Chief, Marketing and Merchandizing.....	K. B. Conger
Markets Assistant.....	G. F. Clingan
Transportation Assistant.....	E. H. Young
Chief, Fruit and Vegetable Inspection.....	R. E. Robinson
Associate Chief, Fruit and Vegetable Inspection.....	F. E. Loveday
Assistant Chief, Fruit and Vegetable Inspection.....	E. G. Paige
Assistant Chief, Fruit and Vegetable Inspection (Canning)	F. J. Perry
Inspection Assistant (Maple Products).....	C. T. Skinner
Honey Specialist.....	F. R. Armstrong

Prince Edward Island—

Senior Inspector.....	C. E. Shaw Stanley, Shaw & Pearden Bldg., P.O. Box 202, Charlottetown
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Nova Scotia—

District Inspector.....	S. B. Marshall, Dominion Public Bldg., Middleton
Supervising Inspector.....	L. V. Spinney, 401 Dominion Public Bldg., Halifax

New Brunswick—

Senior Inspector.....	W. R. Butland, Customs Building, Box 345, Saint John
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Quebec—

District Inspector.....	W. B. H. Marshall, 170 Youville Sq., Montreal
Supervising Inspector.....	M. Fritz, 2 Chauveau Ave., Quebec

Ontario (east of Toronto)—

Senior Inspector.....	C. T. Stevenson, 155 Front St., Belleville
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Ontario (Toronto and West)—

District Inspector.....	H. H. Ponton, Dominion Public Bldg., 10 John St. S., Hamilton
Senior Inspector.....	J. A. McNiven, 59 Victoria St., Toronto 2

Manitoba, Saskatchewan, Alberta—

District Inspector.....	F. H. Steele, 604 Dominion Public Bldg., Winnipeg
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British Columbia—

District Inspector.....	B. M. Whyte, Post Office Bldg., Vernon
Senior Inspector.....	W. J. Coell, 417 Winch Bldg., Vancouver

LIVE STOCK AND LIVE STOCK PRODUCTS DIVISION

The Live Stock and Live Stock Products Act, with the exception of the section relating to Hatchery Approval, is administered by this division. The regulations under the Act provide for control of trading on stock yards and for the grading of hogs sold on the domestic market, of bacon exported, of beef for domestic consumption, and of eggs and poultry for both the domestic and the export market.

In addition to their primary duties, the stock yards and grading staffs are responsible for the assembling, at central markets and at packing houses, of information in regard to the volume of daily live stock sales, the number in each grade sold, ruling prices for each grade and other related information. These statistics form the basis of the reports on live stock marketing regularly issued by the Markets Information Service.

Under the merchandizing section of the division, a service has been established, designed to expand the outlet for live stock, live stock products and poultry products.

Ottawa—

Chief, Live Stock Inspection and Grading Services..	L. W. Pearsall
Chief, Live Stock and Poultry Marketing and Mer- chandizing Services.....	P. E. Light
Chief, Poultry Products Inspection and Grading Services	W. A. Brown
Associate Chief, Poultry Products Inspection and Grading Services.....	S. C. Barry
Assistant Chief, Live Stock Inspection and Grading Services	H. J. Maybee
Chief Market Poultry Inspector.....	E. D. Bonyman
Departmental Accountant.....	D. J. Williams

Prince Edward Island—

Senior Poultry Products Inspector.....	F. M. Nash, Box 39, Charlottetown
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Nova Scotia—

Senior Poultry Products Inspector.....	J. F. Haggerty, C.N.R. Station, Truro
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New Brunswick—

Senior Swine Grader, Maritime Provinces.....	J. W. Graham, Box 310, Moncton
Senior Poultry Products Inspector.....	Wm. Kerr, Box 310, Moncton

Quebec—

Senior Stockyard Supervisor.....	S. N. Chipman, 316 Bridge St., Montreal
Swine Grader.....	R. K. Bennett, 316 Bridge St., Montreal
District Poultry Products Inspector.....	A. Raymond, 2 Chauveau Ave., Quebec

Ontario—

Senior Stockyard Supervisor.....	C. C. Lyster, 59 Victoria St., Toronto
Supervisor of Beef Grading.....	R. A. Thompson, Union Stock Yards, Toronto
Supervisor of Beef Grading.....	C. L. Coulter, Room 564, Confederation Bldg., Ottawa
District Poultry Products Inspector.....	A. F. Curran, 61 Victoria St., Toronto 2
Senior Poultry Products Inspector.....	F. H. Baker, 96 Park St., Brockville

Manitoba—

Senior Stock Yard Supervisor.....	C. E. Bain, Union Stock Yards, St. Boniface
Senior Swine Grader.....	L. Hancock, 630 Dominion Public Bldg., Winnipeg
Supervisor of Beef Grading.....	W. J. McPherson, 630 Dominion Public Bldg., Winnipeg
District Poultry Products Inspector.....	A. C. McCulloch, 630 Dominion Public Bldg., Winnipeg

Saskatchewan—

Stock Yard Agent.....	A. D. Munro, Union Stock Yards, Saskatoon
Senior Stock Yard Supervisor.....	J. L. Pawley, S. Sask. Co-op. Stock Yards, Moose Jaw
Stock Yard Agent.....	J. H. Kezar, N. Sask. Co-op. Stock Yards, Prince Albert
Swine Grader	J. F. George, 416 Post Office Building, Regina
Senior Poultry Products Inspector.....	D. L. Browne, 803 McCallum-Hill Bldg., Regina

Alberta—

Senior Stock Yard Supervisor.....	D. A. MacKenzie, Alberta Stock Yards, Calgary
Senior Stock Yard Supervisor.....	Edmonton Stock Yards, Edmonton

Alberta—Concluded

Supervisor of Beef Grading.....	J. W. Cahill, Alberta Stock Yards, Calgary
Senior Poultry Products Inspector.....	R. H. Ennismore, 407 Blowey-Henry Bldg., Edmonton

British Columbia—

Senior Poultry Products Inspector.....	G. R. Wilson, 512 Winch Bldg., Vancouver
Supervisor of Beef Grading.....	M. V. Campbell, 512 Winch Bldg., Vancouver

London, England—

Bacon Specialist.....	G. B. Miller, 29 Tooley St., London, S.E. 1
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AGRICULTURAL ECONOMICS DIVISION

This division serves as a fact-finding body in matters relating to production as well as to marketing. Activities which have been undertaken, designed to reduce costs, improve merchandizing practices and bring about a better understanding among producers, consumers and the trade, include research and agricultural co-operation, investigations of farm and ranch management practices, costs of production, land utilization, farm mechanization, land settlement, types of farming, costs of distribution, methods and practices followed in the handling of farm products, and factors affecting consumption of agricultural products.

Ottawa—

Associate Director, Marketing Service, Agricultural Economics	J. F. Booth
Principal Agricultural Economist.....	W. C. Hopper
Senior Agricultural Economist.....	J. Coke
Agricultural Economist.....	A. E. Richards
Agricultural Economist.....	A. Gosselin
Senior Assistant Agricultural Economist.....	W. F. Chown
Senior Assistant Agricultural Economist.....	H. R. Hare
Assistant Agricultural Economist.....	S. C. Hudson
Junior Agricultural Economist.....	I. S. McArthur
Assistant to Executive.....	C. M. Goddard

Saskatchewan—

Assistant Agricultural Economist.....	C. C. Spence, Dept. of Farm Management, University of Saskatchewan, Saskatoon
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Alberta—

Assistant Agricultural Economist.....	G. H. Craig, University of Alberta, Edmonton
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